

117TH CONGRESS  
2D SESSION

# H. R. 9477

To authorize studies and pilot programs related to the development and production of aquaculture in the exclusive economic zone of the United States, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

DECEMBER 8, 2022

Mr. LOWENTHAL (for himself, Ms. MACE, Ms. PINGREE, and Ms. BROWNLEY) introduced the following bill; which was referred to the Committee on Natural Resources, and in addition to the Committee on Education and Labor, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

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## A BILL

To authorize studies and pilot programs related to the development and production of aquaculture in the exclusive economic zone of the United States, and for other purposes.

1       *Be it enacted by the Senate and House of Representa-  
2 tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4       This Act may be cited as the “Science-based Equi-  
5 table Aquaculture Food Act” or the “SEAfood Act”.

1   **SEC. 2. DEFINITIONS.**

2       In this Act:

3               (1) **ADJACENT COASTAL JURISDICTION.**—The  
4           term “adjacent coastal jurisdiction” means with re-  
5           spect to any activity proposed, conducted, or ap-  
6           proved by the Administrator under section 5(a), any  
7           coastal State land—

8                       (A) that is used, or is scheduled to be  
9           used, as a support base for such activity; or

10                      (B) in which there is a reasonable prob-  
11           ability of significant effect on land or water  
12           uses from such activity.

13               (2) **ADMINISTRATOR.**—The term “Adminis-  
14           trator” means the Administrator of the National  
15           Oceanographic and Atmospheric Administration.

16               (3) **APPROPRIATE COMMITTEES OF CON-  
17           GRESS.**—The term “appropriate committees of Con-  
18           gress” means the Committees on—

19                       (A) Natural Resources of the House of  
20           Representatives;

21                       (B) Agriculture of the House of Represent-  
22           atives;

23                       (C) Transportation and Infrastructure of  
24           the House of Representatives;

25                       (D) Commerce, Science, and Transpor-  
26           tation of the Senate;

(F) Agriculture, Nutrition, and Forestry of  
the Senate.

5 (4) ENVIRONMENTAL JUSTICE COMMUNITY.—

6 The term “environmental justice community” means  
7 a community with significant representation of any  
8 of the following:

14 (i) an amount equal to 80-percent of  
15 the median income of the area in which the  
16 household is located, as reported by the  
17 Secretary of Housing and Urban Develop-  
18 ment; or

19 (ii) 200-percent of the Federal poverty  
20 line

(B) Individuals who reside in a geographically distinct area in which the population of any of the following categories of individuals is higher than the average population of that cat-

1                 egory for the State in which the community is  
2                 located:

- 3                             (i) Black.  
4                             (ii) African American.  
5                             (iii) Asian.  
6                             (iv) Pacific Islander.  
7                             (v) Other non-White race.  
8                             (vi) Hispanic.  
9                             (vii) Latino.  
10                            (viii) Linguistically isolated.

11                           (C) Tribal or Indigenous communities.

12                           (5) ESCAPE.—The term “escape” means the es-  
13                           cape of juvenile- or adult-farmed organisms, viable  
14                           gametes, or fertilized eggs spawned by farmed orga-  
15                           nisms from aquaculture facilities.

16                           (6) EXCLUSIVE ECONOMIC ZONE.—The term  
17                           “exclusive economic zone” has the meaning given  
18                           such term in section 3(11) of the Magnuson Stevens  
19                           Fishery Conservation and Management Act (16  
20                           U.S.C. 1802(11)).

21                           (7) INDIAN TRIBE.—The term “Indian Tribe”  
22                           has the meaning given such term in section 4 of the  
23                           Indian Self-Determination and Education Assistance  
24                           Act (25 U.S.C. 5304).

1                             (8) OFFSHORE AQUACULTURE.—The term “off-  
2 shore aquaculture” means aquaculture conducted in  
3 the exclusive economic zone.

4                             (9) PILOT PROJECT.—The term “pilot project”  
5 means an aquaculture project approved under sec-  
6 tion 5.

7                             (10) STATE.—The term “State” means each of  
8 the several States, the District of Columbia, each  
9 commonwealth, territory, or possession of the United  
10 States, and each Indian Tribe.

11                            (11) TRIBAL OR INDIGENOUS COMMUNITY.—  
12 The term “Tribal or Indigenous community” means  
13 a population of people who are—

14                            (A) enrolled members of an Indian Tribe;  
15                            (B) members of an Alaska Native or Na-  
16 tive Hawaiian community or organization; or  
17                            (C) members of any other community of  
18 Indigenous people located in a State.

19                            (12) UNDERSERVED COMMUNITIES.—

20                            (A) IN GENERAL.—The term “underserved  
21 communities” means women and individuals be-  
22 longing to communities that have been denied  
23 consistent and systematic fair, just, and impar-  
24 tial treatment and have been systematically de-  
25 nied a full opportunity to participate in all as-

1 pects of economic, social, and civic life, includ-  
2 ing Black, Latino, Indigenous and Native  
3 American persons, Asian Americans and Pacific  
4 Islanders and other persons of color.

5 (B) INCLUSION.—In the context of the  
6 aquaculture industry, the term “underserved  
7 communities”, within fishing communities, may  
8 include—

- 9 (i) subsistence fishery participants  
10 and their dependents;
- 11 (ii) fishing vessel crews, and fish proc-  
12 essor and distribution workers; and
- 13 (iii) territorial fishing communities  
14 (including those in American Samoa,  
15 Guam, the Commonwealth of the Northern  
16 Mariana Islands, Puerto Rico, and the  
17 United States Virgin Islands).

18 (13) VETERAN.—The term “veteran” has the  
19 meaning given such term in section 101 of title 38,  
20 United States Code.

21 **SEC. 3. GAO STUDY.**

22 (a) IN GENERAL.—Not later than 2 years after the  
23 date of the enactment of this section, the Comptroller  
24 General shall submit a report to the appropriate commit-  
25 tees of Congress examining aquaculture permitting, moni-

1 toring, and regulation during the 15-year period ending  
2 on the date of enactment of this section based on the avail-  
3 able literature, case studies, and stakeholder input.

4 (b) CONTENTS OF STUDY.—The study required  
5 under subsection (a) shall—

6 (1) consider the feasibility and potential posi-  
7 tive and negative implications of designating a lead  
8 agency to issue aquaculture permits in a timely  
9 manner;

10 (2) identify lessons learned during such period  
11 with respect to—

12 (A) the implications of aquaculture type,  
13 location, and regulatory framework on project  
14 success;

15 (B) the degree of involvement of coastal or  
16 adjacent States, Tribal groups, underserved  
17 communities, or environmental justice commu-  
18 nities in consultation, planning, or operations of  
19 such aquaculture operations;

20 (C) safety protocols and risk mitigation  
21 measures for the permit and oversight proc-  
22 esses, including—

23 (i) escape prevention measures;

24 (ii) emergency event response plan-  
25 ning;

(iii) compliance monitoring, particularly in remote locations;

(iv) compliance with Federal laws;

4 (v) reporting mechanisms to appropriate Federal authorities, and  
5

(vi) vessel navigation aids to ensure navigational safety;

(E) building and optimizing synergies between aquaculture and wild-caught fishing activities, or offshore, nearshore, and onshore aquaculture activities, including market development, increasing seafood consumption, and shared infrastructure;

17 (F) the environmental effects of marine  
18 aquaculture operations, including mechanisms  
19 to prevent harm to the environment, wildlife, or  
20 human well-being;

(G) net economic and social benefits of the aquaculture projects, particularly for nearby communities (including underserved and environmental justice communities), based on

1           project size, regulatory structures, and financing structures;

3           (H) the impact of introducing aquaculture  
4           products to the marketplace on supply and demand for wild-capture fisheries products and methods for ensuring resiliency and growth for both aquaculture and wild-capture fisheries products;

9           (I) mechanisms to enhance capital investment, workforce development, and equitable opportunity requirements or assistance programs in the permit process, or to diversify permit applicants;

14          (J) outstanding needs for continued research, development, education activities, programs, and funding regarding offshore aquaculture projects and development of the domestic workforce and entrepreneurship related to offshore aquaculture; and

20          (K) the economic potential for both large- and small-scale aquaculture operations to generate a positive return on investment under various regulatory and financing structures; and

24          (3) make recommendations with respect to future offshore aquaculture operations, including—

- 1                             (A) regulatory processes necessary for per-  
2                             mitting, monitoring, and oversight, including  
3                             processes and techniques related to siting, de-  
4                             ployment, operations, and decommissioning;
- 5                             (B) potential safeguards, data collection,  
6                             or monitoring required to minimize disparate  
7                             impacts on environmental justice communities,  
8                             local economies, marine environments, and ex-  
9                             isting domestic economic sectors;
- 10                            (C) mechanisms for optimizing the effi-  
11                             ciency and coordination among Federal agencies  
12                             with a role in permitting aquaculture in off-  
13                             shore waters without compromising the goals of  
14                             such permitting;
- 15                            (D) methods for effectively involving stake-  
16                             holders, including—
- 17                                 (i) adjacent jurisdictions;
- 18                                 (ii) local communities;
- 19                                 (iii) regional offshore waters users  
20                             and management groups (including re-  
21                             gional fishery management councils); and
- 22                                 (iv) users of local, State, and Federal  
23                             waters and coastal resources, including un-  
24                             derserved communities, and environmental  
25                             justice communities;

(E) best practices for incorporating local knowledge, including from Tribal or Indigenous communities;

(G) how creating private rights of action or waiving sovereign immunity would facilitate or hinder the development of offshore aquaculture projects and their acceptance by nearshore and offshore waters user groups and coastal communities.

13 SEC. 4. STUDY OF AQUACULTURE PERMITTING STAND-  
14 ARDS.

15       (a) STUDY REQUIRED.—Not later than 30 months  
16 after the date of enactment of this Act, the Ocean Studies  
17 Board of the National Academies of Sciences, Engineer-  
18 ing, and Medicine shall complete a study to develop the  
19 scientific basis for efficient and effective regulation of off-  
20 shore aquaculture.

(b) CONSIDERATIONS.—The study required by subsection (a) shall, with respect to offshore aquaculture—

23 (1) identify—

(A) optimal methods of operation of aquaculture facilities to promote high yields and

1 limit adverse effects on the environment, wild-  
2 life, and human well-being, including—

5 (ii) appropriate stocking densities;

(B) a science-based definition of sustainable aquaculture feed or other inputs;

(C) potential adverse effects on the environment, wildlife, and human well-being, including from—

23 (iv) the risk of wildlife entanglements;  
24 (v) interbreeding or the spread of dis-

25 ease;

1 (vi) the source and sustainability of  
2 brood stock for offshore aquaculture oper-  
3 ations and impacts of hatcheries and  
4 prestocking rearing operations that are  
5 specific to offshore aquaculture;

(vii) large-scale cultivation of filter-feed bivalve organisms and seaweed on the marine food webs;

9 (viii) aquaculture facilities acting as  
10 aggregating devices and increasing the vul-  
11 nerability of wild fisheries and wildlife pop-  
12 ulations to fishing or other sources of mor-  
13 tality; and

14 (ix) the use of nonsustainable sources  
15 of feed or other inputs;

16 (D) potential methods and technologies to  
17 mitigate adverse effects, including those identi-  
18 fied under subparagraph (C);

19 (E) potential conflicts and solutions to  
20 mitigate such conflicts between offshore aqua-  
21 culture facilities and other users of the offshore  
22 environment;

(F) the types of data and qualitative information necessary for the optimal operation of such facilities and appropriate methods of pro-

1           curing such data information, including from  
2           citizen science (as defined in section 402 of the  
3           Crowdsourcing and Citizen Science Act (15  
4           U.S.C. 3724) and the traditional aquaculture  
5           knowledge of Tribal and Indigenous commu-  
6           nities;

7                 (G) the applicability and sufficiency of ex-  
8                 isting regulatory systems on offshore aqua-  
9                 culture;

10                 (H) existing local, State, Federal, and for-  
11                 eign regulatory standards that may serve as  
12                 models for efficient and effective regulation of  
13                 offshore aquaculture; and

14                 (I) the considerations necessary to account  
15                 for the effects of climate change predictive as-  
16                 sessments on the siting and operation of off-  
17                 shore aquaculture facilities; and

18                 (2) provide legislative and regulatory rec-  
19                 ommendations with respect to—

20                         (A) promoting the methods of operation  
21                         identified under paragraph (1)(A);

22                         (B) mitigating adverse effects identified  
23                         under paragraph (2)(B);

24                         (C) environmental standards, control rules,  
25                         or reference points that build upon the existing

1           public and private standards for aquaculture  
2           sustainability; and

3                 (D) ensuring that operators of offshore  
4           aquaculture facilities adhere to international  
5           standards for social responsibility, public  
6           health, and equitable labor practices, including  
7           with respect to sourcing inputs for such facili-  
8           ties.

9 **SEC. 5. ASSESSMENT PROGRAM FOR OFFSHORE AQUA-**  
10                   **CULTURE.**

11                 (a) ESTABLISHMENT.—Not later than 60 days after  
12           the date of enactment of this Act, the Administrator shall  
13           establish an assessment program to evaluate the following  
14           with respect to offshore aquaculture:

15                 (1) The ability of different commercial-scale fa-  
16           cility designs and operational methods to—

17                         (A) survive various atmospheric and ocean  
18           conditions, including high wind speeds or high-  
19           energy ocean conditions associated with severe  
20           weather, without—

21                         (i) allowing escapes of cultivated organ-  
22           isms;

23                         (ii) loss of infrastructure; or

24                         (iii) wildlife entanglement resulting  
25           from loss or damaged infrastructure;

(C) prevent adverse impacts on the marine environment, including impacts to habitat, water chemistry, and wildlife; and

10 (D) avoid adverse impacts on navigation  
11 and safety to existing ocean users due to aqua-  
12 culture facilities, including requirements for op-  
13 erations, navigation, and transit associated with  
14 such facilities.

(A) project compliance with the requirements of subsection (b);

22 (B) impacts on the marine environment;  
23 and

(C) interference with existing uses of the water body in which the project is located.

1                         (3) The relative risks, benefits, and cost of var-  
2 ious types of aquaculture, including different species  
3 of finfish in different geographies and under varying  
4 climactic and ecological conditions.

5                         (4) The development of performance standards  
6 for offshore aquaculture operations.

7                         (b) PILOT PROJECT SELECTION.—

8                         (1) SOLICITATION.—The Administrator shall  
9 solicit and accept applications for participation in  
10 the assessment program from projects that would  
11 advance the objectives of subsection (a), including—

12                         (A) objective analyses of data from com-  
13 mercial-scale and other demonstration projects  
14 existing or carried out in offshore waters of the  
15 United States or other countries within the past  
16 15 years; or

17                         (B) pilot projects proposed to be operated  
18 in the exclusive economic zone.

19                         (2) PUBLICATION.—The Administrator shall  
20 publish in the Federal Register a notice summa-  
21 rizing each application received under this section  
22 and invite and consider public comments regarding  
23 the pilot projects proposed under those applications  
24 for their inclusion in the assessment program.

1                             (3) DESIGNATION OF ADJACENT COASTAL JU-  
2 RISDICTIONS.—The Administrator shall promulgate  
3 a mechanism for identifying and designating, with  
4 respect to each pilot project application received  
5 under paragraph (1), the nearest adjacent coastal  
6 jurisdiction or jurisdictions.

7                             (4) NOTICE.—The Administrator shall provide  
8 a copy of each pilot project application to each adja-  
9 cent coastal jurisdiction designated under paragraph  
10 (3).

11                            (5) DENIAL AT THE REQUEST OF ADJACENT  
12 COASTAL JURISDICTION.—If, in the 60-day period  
13 after receiving notice of a pilot project application  
14 under paragraph (4), an adjacent coastal jurisdiction  
15 requests that the Secretary rejects such application,  
16 the Secretary shall reject such application.

17                           (6) PILOT PROJECT APPROVAL.—Not later than  
18 1 year after the date of the enactment of this sec-  
19 tion, the Administrator shall approve not less than  
20 1 and not more than 4 applications for aquaculture  
21 pilot projects that—

22                           (A) cultivate species that pose minimal  
23 threat of harm to wildlife and the ecosystem in  
24 which the project is located;

5 (C) have developed and are able to imple-  
6 ment an escape response and infrastructure loss  
7 or damage plan that minimizes the impact of  
8 any escapes or infrastructure loss or damage on  
9 the marine environment and on other uses of  
10 the water body in which the project is located;

(E) are compatible with, and prevent or minimize displacement of, existing uses and users of the marine environment in which it is located;

22 (F) will conform to best practices to avoid  
23 or minimize the use of antibiotics and other  
24 pharmaceuticals and minimize the release of  
25 such pharmaceuticals into the environment; and

(G) will be conducted over a period of 5 years.

7                         (8) PERMIT.—The Administrator shall issue the  
8                         appropriate permits to allow each pilot project ap-  
9                         proved under paragraph (6) to conduct offshore  
10                        aquaculture activities in the exclusive economic zone  
11                        in accordance with this Act.

12 (c) PRIORITY CONSIDERATION.—In considering pilot  
13 project applications, the Administrator shall give priority  
14 consideration to pilot projects owned or operated by—

15 (1) veterans, or entities in which a veteran or  
16 veterans have a majority ownership interest;

17                         (2) members of an environmental justice com-  
18                         munity or underserved community, or entities in  
19                         which a member or members of an environmental  
20                         justice community or underserved community have a  
21                         majority ownership interest;

1                             (4) applicants who can demonstrate that the  
2 pilot project will directly benefit individuals who are  
3 already participating in the agricultural, wild-caught  
4 fishery, and aquaculture industries who have been  
5 negatively impacted by the COVID–19 pandemic,  
6 natural disasters, or disaster declarations.

7                             (d) INTERIM FINAL RULE.—The Administrator may  
8 make an interim final rule to implement the requirements  
9 under this section.

10                             (e) ASSESSMENT PROGRAM PARTICIPANT REPORT-  
11 ING.—

12                             (1) DATA AND MONITORING.—The owner or op-  
13 erator of each commercial-scale demonstration  
14 project or pilot project approved for inclusion in the  
15 assessment program under this section shall submit  
16 such documentation, in such time, place, and man-  
17 ner as the Administrator determines appropriate, in-  
18 cluding—

19                                 (A) production data;

20                                 (B) interactions with wild species, mitiga-  
21 tion measures taken, and the result;

22                                 (C) technology and operational practices  
23 used to measure and monitor effluent, integrity  
24 of cage materials and other gear, and health of  
25 the cultivated species;

(D) environmental and ecosystem impacts;

(E) data necessary to assess the consider-

ations described in section 4(b);

(F) information necessary for the Sec-

retary to make a revocation or modification de-

termination under subsection (f);

(G) owner, operator, and employee demo-

graphic data and other relevant data as deter-

mined by the Administrator for purposes of as-

sessing the pilot project's direct benefits to en-

## Environmental justice communities and the eco-

nomic and social benefits for nearby coastal

communities;

(H) navigation and safety impacts to exist-

ocean users; and

(I) such additional information as the Ad-

ministrator requires to fulfill the g

jectives of the assessment program.

(2) TECHNICAL ASSISTANCE.—The Adminis-

or shall, upon request, provide technical assist-

e to owners and operators of commercial-scale

onstration projects and pilot projects to comply

on the reporting requirements of this section.

(3) EMERGENCY REPORTING.—The Adminis-

1 for each owner or operator of an aquaculture pilot  
2 project approved under this section to immediately  
3 report suspected or known interactions between pilot  
4 project facilities or vessels and protected wild spe-  
5 cies.

6 (f) AUTHORITY TO REVOKE OR MODIFY PILOT  
7 PROJECT PARTICIPATION.—The Administrator may re-  
8 quire modifications to, or terminate pilot project participa-  
9 tion under this section, and order the removal of an off-  
10 shore aquaculture facility authorized to operate under this  
11 section if—

12 (1) the project incurs an incident involving a  
13 death or serious personal injury, and the Adminis-  
14 trator determines that project operator negligence  
15 was the cause or a contributing factor to such inci-  
16 dent;

17 (2) operation of the project results in a viola-  
18 tion of the Endangered Species Act of 1973 (16  
19 U.S.C. 1531 et seq.) or the Marine Mammal Protec-  
20 tion Act of 1972 (16 U.S.C. 1361 et seq.);

21 (3) the pilot project owner or operator fails to  
22 comply with all of the terms and conditions of the  
23 pilot program approval or modifications required by  
24 the Administrator under this subsection; or

1                             (4) the Administrator determines that contin-  
2         ued participation in the pilot program by the project  
3         would be unsafe or result in unacceptable negative  
4         impacts to the marine environment or nearby com-  
5         munities, or other users of the water body in which  
6         the project is located.

7                             (g) REPORTS.—

8                             (1) ANNUAL REPORTS.—Not later than 2 years  
9         after the date of enactment of this Act and annually  
10       thereafter for the duration of the assessment pro-  
11       gram, the Administrator shall publish, make avail-  
12       able to the public, and submit to aquaculture stake-  
13       holders (including each adjacent coastal jurisdiction  
14       and each affected Tribal or Indigenous community,  
15       regional fishery management council, interstate fish-  
16       eries commission, conservation organization, and  
17       fisheries association) a report that includes the fol-  
18       lowing information:

19                             (A) A description of each approved pilot  
20         project.

21                             (B) In the first report, documentation sup-  
22         porting selection of each approved pilot project.

23                             (C) A summary of the information re-  
24         ported to the Administrator under subsection  
25         (e) for each approved pilot project.

(A) An evaluation based on data from the assessment program of the opportunities and risks of offshore aquaculture regarding—

13 (i) marine ecosystems;

16 (iii) other ecosystems goods and serv-  
17 ices;

18 (iv) social and economic impacts to  
19 nearby communities, including cumulative  
20 impacts and impacts on environmental jus-  
21 tice communities, low-income communities,  
22 and communities of color;

23 (v) best practices to mitigate risks;  
24 and

(vi) best practices to prevent disparate impacts.

(ii) would enhance the safe operation of aquaculture facilities, service vessels, and associated activities;

(iv) are technically, operationally, and economically feasible.

## **18 SEC. 6. AQUACULTURE CENTERS OF EXCELLENCE.**

19 (a) MINORITY AQUACULTURE RESEARCH AND EN-  
20 TREPRENEURSHIP GRANTS.—

21                             (1) IN GENERAL.—Not later than 1 year after  
22 the date of the enactment of this section, the Admin-  
23 istrator shall establish the “Aquaculture Centers of  
24 Excellence” program to award grants to covered in-  
25 stitutions to assist in establishing or enhancing an

1        aquaculture curriculum for undergraduate or grad-  
2        uate courses of study at such covered institutions.

3                 (2) APPLICATIONS.—To be eligible for a grant  
4        under this section, a covered institution shall submit  
5        to the Administrator an application in such form, at  
6        such time, and containing such information as the  
7        Administrator determines appropriate, including any  
8        plans to partner with other institutions of higher  
9        education pursuant to paragraph (4).

10                (3) GRANT USES.—A covered institution receiv-  
11        ing a grant under this section—

12                         (A) shall use such grant funds to establish  
13        or enhance an aquaculture curriculum for un-  
14        dergraduate or graduate studies that includes—

15                                 (i) training in various skill sets needed  
16        by successful aquaculture entrepreneurs,  
17        including—

18                                         (I) business management, stra-  
19        tegic planning, business plan develop-  
20        ment, capital financing and fund-  
21        raising, financial management and ac-  
22        counting, market analysis and com-  
23        petitive analysis, and market entry  
24        and strategy execution; and

(II) any other skill sets specific

to the needs of the student population and the surrounding community, including social and environmental sustainability, as determined by the institution;

(ii) natural and social science research programs in aquaculture and natural fisheries, including offshore aquaculture;

(iii) development of extension programs (or cooperation with existing extension programs) that educate and engage community members, including elementary and secondary school students, on aquaculture and aquaculture career pathways that transfer newly developed techniques and research information developed or collated at the covered institution to aquaculture practitioners; and

(iv) career development, such as the establishment of cooperatives, apprenticeships, mentorships, accelerators, or grant competitions; and

(B) may only use such grant funds for expenses directly related to the implementation of

the curriculum or activities authorized by this section.

(4) PARTNERSHIPS.—In applying for and carrying out activities with grants under this section, a covered institution may partner with other institutions of higher education with established aquaculture programs, including institutions of higher education not otherwise eligible for grants under this section, to facilitate the sharing of resources and knowledge necessary for aquaculture curriculum development or enhancement at the covered institution.

16                             (6) AUTHORIZATION OF APPROPRIATIONS.—  
17       There is authorized to be appropriated to carry out  
18       this section \$25,000,000 to remain available until  
19       expended, for each of fiscal years 2023 through  
20       2027.

21 (b) DEFINITIONS.—In this section:

24 (A) a minority-serving institution;

(B) a historically Black college or university; or

3 (C) a Tribal College or University.

1   **SEC. 7. RULE OF CONSTRUCTION.**

2       Any requirement in this Act to identify or consider  
3       an impact or effect on human health, the environment,  
4       or the climate shall include a requirement to make such  
5       identification or consideration while taking into account—

6              (1) the cumulative impact of such impact or ef-  
7              fect in the context of all sources of emissions, dis-  
8              charges, or releases from any source, past, present,  
9              or in the reasonably foreseeable future, on the af-  
10             fected environment and population;

11             (2) any characteristics of such environment and  
12             population that may heighten vulnerability to envi-  
13             ronmental pollution and related health risks; and

14             (3) any action or practice that, even if appear-  
15             ing neutral, has the effect of subjecting individuals  
16             to discrimination on the basis of race, color, or na-  
17             tional origin.

